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APPLICATION NO. FILING DATE		ATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/851,757 05/08/2001		Rajeev Sethia	VLSI-3512	3873		
24738	7590 06/02/2006			EXAMINER		
	LECTRONICS		LIPMAN, JACOB			
	TUAL PROPER' Y DRIVE, M/S		ART UNIT	PAPER NUMBER		
SAN JOSE, CA 95131				2134		
				DATE MAILED: 06/02/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)			
			09/851,757 SETHIA		A ET AL.		
	Office Action Summary	Examiner		Art Unit			
		Jacob Lipn	nan	2134			
Period fo	- The MAILING DATE of this communication r Reply	n appears on the	cover sheet with the c	orrespondence ad	ddress		
A SHO WHIC - Exten after: - If NO - Failur Any r	DRTENED STATUTORY PERIOD FOR R HEVER IS LONGER, FROM THE MAILIN sions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicatic period for reply is specified above, the maximum statutory p te to reply within the set or extended period for reply will, by sply received by the Office later than three months after the d patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF TH FR 1.136(a). In no eve on. period will apply and wil statute, cause the appli	IS COMMUNICATION nt, however, may a reply be tim I expire SIX (6) MONTHS from cation to become ABANDONEI	N. nely filed the mailing date of this c D (35 U.S.C. § 133).			
Status							
2a)□	Responsive to communication(s) filed on This action is FINAL. 2b) Since this application is in condition for all closed in accordance with the practice un	This action is no lowance except	on-final. for formal matters, pro		e merits is		
Dispositi	on of Claims						
5)□ 6)⊠ 7)□	Claim(s) <u>1-8 and 26</u> is/are pending in the 4a) Of the above claim(s) is/are wit Claim(s) is/are allowed. Claim(s) <u>1-8 and 26</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction a	hdrawn from cor					
Applicati	on Papers						
10)⊠	The specification is objected to by the Example The drawing(s) filed on <u>08 May 2001</u> is/ard Applicant may not request that any objection the Replacement drawing sheet(s) including the country of the oath or declaration is objected to by the country of the coun	e: a) accepted to the drawing(s) become cition is require	e held in abeyance. See ed if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 C			
Priority u	nder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO-1449 or PTO/S r No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	O-152)		

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#### **DETAILED ACTION**

#### Election/Restrictions

Claims 9-25 are withdrawn from further consideration pursuant to 37 CFR
 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 9 September
 2005.

## **Drawings**

- 2. Figure 1A should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 175. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if

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only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

## Specification

4. The disclosure is objected to because of the following informality:

Page 7 recites "word from the he opposing". The word "he" appears to be a typo. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Appropriate correction is required.

#### Claim Objections

5. There are two claims with identical numbers in the application. 37 CFR 1.126 requires the original numbering of the claims to be preserved throughout the prosecution, therefor, misnumbered claim 3(b) has been renumbered 26.

# Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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7. Claims 2-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 2 recites the limitation "each ... overtime" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim 3 recites the limitation "a set of random digital values" in lines 1-2. It is unclear if this refers to the same values recited in claim 2.

Claim 3 recites the limitation "said column strong driver signal" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Claim 3 recites the limitation "said row strong driver signal" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Claim 26 recites the limitation "said register file" in lines 2-3. There is insufficient antecedent basis for this limitation in the claim.

Claim 4 recites the limitation "said register file" in line 1. There is insufficient antecedent basis for this limitation in the claim.

The term "significant" in claim 4 is a relative term which renders the claim indefinite. The term "significant" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

Regarding claim 4, the phrase "such as" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention.

See MPEP § 2173.05(d).

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Claim 6 recites the limitation "said column strong driver" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim 8 recites the limitation "wherein said programmable column word constructor and said programmable column word constructor" in lines 1-3. Both elements are identical. There seems to be a typo in this claim, and it is unclear what is intended.

# Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by applicant's admitted prior art.

Claim 1 describes the keyboard that applicant describes as background.

Applicant's proposed improvement to the known keyboard seems to be claimed in claim

2.

10. Claim 1-7 and 26, as best understood, are rejected under 35 U.S.C. 102(b) as being anticipated by Frielink, USPN 4,926,173.

With regard to claims 1 and 2, Frielink discloses a keyboard (column 2 lines 53-68) where a set of digital values varies (column 1 lines 36-41).

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With regard to claim 3, Frielink discloses the random values are sent to the rows and columns (column 1 lines 36-66) from a register file (output lines, column 3 lines 29-30).

With regard to claim 4, Frielink discloses the random number generator generates patterns depending on the time, and thus changes over time (column 3 lines 25-28).

With regard to claim 5, Frielink discloses weak driver signals are changed on each row and column (column 4 lines 13-49).

With regard to claims 6, 7, and 26, Frielink discloses the bits comprising a 10, 01, or 11 (column 4 lines 35-38)

## Claim Rejections - 35 USC § 103

- 11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 12. Claim 8, as best understood, is rejected under 35 U.S.C. 103(a) as being unpatentable over Frielink in view of Valdenaire, USPN 5,677,687.

With regard to claim 8, Frielink discloses the limitations of claim 2, as outlined above. Frielink discloses a pull up (column 5 lines 35-40), but does not specifically disclose having a pull-down. Valdenaire discloses that keyboards often have pull-up and pull-down resistors (Figure 1, column 2 lines 45-46). It would have been obvious for one of ordinary skill in the art to use the output-randomizing keyboard of Frielink on the pull-

up/pull-down keyboard of Valdenaire to increase security and prevent eavesdropping (Frielink, column 2 lines 2-5).

#### Conclusion

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacob Lipman whose telephone number is 571-272-3837. The examiner can normally be reached on M-Th 7 AM-3 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse can be reached on 571-272-3838. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JL

